

ABSTRACT OF THE DISCLOSURE

(1) An approximate center-based clustering that utilizes sampling to cluster a set of n points to identify $k > 0$ centers with quality assurance, but without the drawbacks of sample size and running time dependence on n . (2)

5 An approximate conceptual clustering algorithm that utilizes sampling to identify k disjoint conjunctions with novel quality assurance, also without the drawbacks of sample size and running time dependence on n .

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